



# **Cranfield University ECR Network Symposium**

**Monday 4<sup>th</sup> and Tuesday 5<sup>th</sup> March 2024**

Delegate Pack and Programme





## Welcome

It is with great pleasure that we welcome you all to Cranfield University's first Early Career Researcher Network Symposium.

This Symposium celebrates the Early Career community across the whole University, bringing together researchers from the Cranfield campus and those from Shrivenham. Whichever School and Theme you are in, we hope that our programme inspires and excites you about the opportunities open to all Early Career Researchers.

As you will see below in this delegate's pack, this is a programme designed to build and strengthen the Early Career community across Themes and Schools, and indeed across our two campuses. Our aim is to provide a safe, inclusive, and open space for networking, as well as to showcase some of the research currently being undertaken by Early Career Researchers. We have an exciting line-up of posters and oral presentations across the two days, and we hope that this will catalyze many serendipitous discussions and spark potential research collaborations.

Working closely with our University's Alumni Office, we are delighted to invite back many former Cranfield researchers to shed a light on their careers after Cranfield. With speakers across industry, policy, and research sectors, our Career Development Panel and the subsequent break-out discussions will no doubt provide useful advice and guidance for career progression. The Alumni Office will also spotlight ways of leveraging your Alumni Network – and indeed, Cranfield alumni are *your* alumni.

Whether you know the Cranfield campus well, or are visiting for the first time, we realize that it's often the case that we confine our day-to-day work to our respective School buildings. To conclude the first day, we have therefore organized a number of tours around some of the infrastructure and facilities on the Cranfield campus. Those who expressed interest in the tours will have received a form to select three tour preferences. There may still be space available on the tours, so please do express interest at the Registration Desk.

On the second day of the Symposium, we have two sessions running in parallel. We have been working hard with Cranfield's Research and Innovation Office on an interactive and engaging 'Sandpit' group-working activity on the theme of Sustainability. Meanwhile, we are excited to run a session on Research Impact and the importance of storytelling in research. Please see below for a sign-up link to one of these two sessions.

Whatever your reason for attending this Early Career Researcher Symposium, we look forward to welcoming you on Monday 4<sup>th</sup> March, and we hope you enjoy it.

Dan Evans, Jade Millar, Angelos Plastropoulos, Geoffrey Neale, Kim Del Kaze, Yirui Jiang, Zahra Karimi, Zhengjia Xu – the ECR Symposium Working Group.

# Important reminders for all delegates

## Morning parallel session on 5<sup>th</sup> March

Please note: all delegates planning to attend on Day 2 will need to sign up for a morning parallel session [using this link](#). These parallel sessions will be on a first-come-first-served basis. Please sign up by 5pm on Friday 1<sup>st</sup> March.

## Getting here

### Visitors to the Cranfield campus:

Please register first at the Main Reception, before heading to the Vincent Building. Please find all additional information regarding how to find the Vincent Building, parking, and accommodation here. Please note that we do not have a secure place to store personal possessions.

### The Vincent Building:

The Symposium is being held in the Vincent Building (52a). [A downloadable campus map](#) is available to help you navigate the site. The Vincent Building is at D4 on the campus map.

### Emergency contact on the day:

For anything related to the Symposium, please contact Dan Evans by email (Daniel.L.Evans@cranfield.ac.uk) or +44 07814 919735.

## Delegate arrival

### Name badges:

Following the University's aim to provide a sustainable environment in which to live and work, delegates will not be provided with name badges. We instead request that you bring your Cranfield pass with you. Upon arrival you will receive a sticker to indicate your status as a registered delegate.

### Photography:

Please note that there may be a Cranfield University photographer present to record the day. If you do not wish to be photographed, please inform the Registration Desk.

## Presenters and exhibitors

### Poster presenters:

Please visit the Registration Desk with your printed poster to find out your poster board number. Posters will be displayed in Lecture Room 1.

### Symposium exhibitors:

All Symposium exhibitors should visit the Registration Desk to sign in.

## Evening logistics

### Drinks Reception and Dinner:

The Drinks Reception and Dinner will take place in the Bleinham Room at Mitchell Hall. The dress code is smart casual. Please plan to arrive at 17:30 for the Drinks Reception, followed by a three-course sit-down dinner at 18:00.

### Accommodation:

For those who have requested accommodation for Monday 4th March, the check-in time at Mitchell Hall is 2pm. We encourage all those who have requested accommodation to check in after the Cranfield University Campus Tours at 17:00. Check-out on Tuesday 5th March is by 10am. Please note that we are unable to store luggage in the Vincent Building, and all items are left at their owner's risk.

## Symposium Programme

### Monday 4<sup>th</sup> March 2024

Time	Location	Session
10:00	Vincent Building	<b>Registration opens</b>  Please could all delegates visit the Registration Desk to sign in and collect a sticker. Please note: if you are presenting a poster at the Symposium, can you present yourself at the registration desk for your poster board number.
10:50	Auditorium	<b>Welcome to the Symposium</b>  Introductions from Cranfield University's Early Career Researcher Network Committee Welcome by Professor Karen Holford, Chief Executive and Vice-Chancellor at Cranfield University
11:00	Auditorium	<b>Keynote Address</b>  Dr Jialuo Ding, Co-founder and CTO of WAAM3D Chaired by Eloise Eimer, co-chair of ECR Network Committee
11:45	LR 1 & Networking Space	<b>Poster session and buffet lunch</b>  Please feel free to visit the Posters in Lecture Room 1, the Exhibitors, and help yourself to a buffet lunch in the Networking Space.
12:45	Auditorium	<b>Career development panel</b>  Chaired by Geoffrey Neale

		<p><b>Halil Bedevi</b> – UK Head of Advanced Manufacturing at Santander Corporate &amp; Commercial.</p> <p><b>Alissa Cotton</b> – Awardee of the 2023 Cranfield Alumni Excellence in Achievement Award for Recent Energy and Sustainability Graduates; Policy and Advocacy Lead for Shell’s Low Carbon Fuels business.</p> <p><b>David John Rajendran</b> – Lecturer within the Rolls-Royce University Technology Centre for Aero Systems Design, Integration and Performance at Cranfield University. Awards include the American Society of Mechanical Engineers John P Davis Award 2021 &amp; 2022.</p> <p><b>Annette Southgate</b> – Director of Security for Cranfield Defence.</p> <p><b>Philip Wingrove</b> – General Manager, Alltrista Plastic; recipient of Cranfield University’s Distinguished Manufacturing Alumni Award 2019.</p>
<b>13:35</b>	<b>Lecture Rooms in Vincent Building</b>	<p><b>Breakout career discussions with panellists</b></p> <p>Halil Bedevi – LR02  Alissa Cotton – LR07  David John Rajendran – LR05  Annette Southgate – LR06  Philip Wingrove – LR03</p>
<b>14:20</b>	<b>Auditorium</b>	<p><b>Leveraging your Alumni Network</b></p> <p>Rachael Gadsden, Assistant Director of Alumni Relations  Chaired by Dan Evans and Jade Millar</p>
<b>14:50</b>	<b>Auditorium</b>	<p><b>Closing remarks</b></p> <p>Professor Leon Terry, Pro-Vice Chancellor for Research and Innovation</p>
<b>15:00</b>	<b>Auditorium</b>	<p><b>Evening logistics</b></p> <p>Dan Evans and Jade Millar</p>
<b>15:15</b>	<b>LR02 and LR03</b>	<p><b>Cranfield University Campus Tours</b></p> <p>Tours are pre-booked by the Delegates. To check if there is space on a tour, please go to the Registration Desk. Information about where to go to join a tour will be given at 15:15 in the Vincent Auditorium</p>
<b>17:30</b>	<b>Mitchell Hall</b>	<p><b>ECR Symposium Drinks Reception</b></p>
<b>18:00</b>	<b>Mitchell Hall</b>	<p><b>ECR Symposium Dinner</b></p>

## Tuesday 5<sup>th</sup> March 2024

Time	Location	Session
08:50	Vincent Building	<b>Registration opens</b>  Please could all delegates visit the Registration Desk to sign in and collect a sticker. Please note: if you are presenting a poster at the Symposium, can you present yourself at the registration desk for your poster board number.
09:25	Auditorium	<b>Welcome to Day 2</b>  Introduction from Dan Evans on the logistics of Day 2 Welcome to the ECR Network from Alex Elliott
Please note: all delegates planning to attend on Day 2 will need to sign up for a morning parallel session <a href="#">using this link</a> . These parallel sessions will be on a first-come-first-served basis. Please sign up by 5pm on Friday 1 <sup>st</sup> March.		
<b>Parallel Session 1 - Sandpit</b>		
09:30	Auditorium	<b>Introduction to the Sandpit session</b>  Introduction from Zahra Karimi and Kim Del Kaze, with support from the Research and Innovation Team.
09:40	Lecture Rooms in Vincent Building	<b>Sandpit group working</b>
11:15	Auditorium	<b>Sandpit group presentations</b>  Chaired by Zahra Karimi and Kim Del Kaze
<b>Parallel Session 2 - Research Impact: Storytelling &amp; case studies</b>		
10:00	Auditorium	<b>Session led by Liz Worswick, Research Impact Facilitator</b>
11:15	Auditorium	<b>Sandpit group presentations</b>  Chaired by Zahra Karimi and Kim Del Kaze
12:15	LR 1 & Networking Space	<b>Poster session and buffet lunch</b>  Please feel free to visit the Posters in Lecture Room 1, the Exhibitors, and help yourself to a buffet lunch in the Networking Space.

<b>13:00</b>	<b>Auditorium</b>	<p><b>Research Presentations</b></p> <p>Chaired by Alex Elliott</p> <p><b>Moe Khant Thu</b> – Advancing the Marketing Agility Literature Through Problematization</p> <p><b>Ahsan Alam</b> – Performance of supercritical CO<sub>2</sub> Brayton cycles</p> <p><b>Mikel Bueno Viso</b> – Towards Reconfigurable Manufacturing: A Framework for a Flexible and Reconfigurable Robot Cell Design</p> <p><b>Felix Fu</b> – Novel Prognostic Methodologies for Aircraft Systems</p> <p><b>Emily Guest</b> – Nitrogen Climate Smart – the potential for legumes to reduce greenhouse gas emissions in agriculture.</p> <p><b>Parveen Rupani</b> – Effect of organo-mineral fertiliser on Spring wheat (Mulika) growth and root development.</p> <p><b>Irene Teixidó Orries</b> – Vis-NIR spectroscopy and NIR-hyperspectral imaging as promising mitigation tools to remove T-2 and HT-2 toxins highly-contaminated oat single kernels from the food chain.</p> <p><b>Patrick Mckenna</b> – Wastewater irrigation for vegetable crops in peri-urban farms in Faisalabad: heavy metals, biochar mitigation and future plans</p>
<b>15:10</b>	<b>Auditorium</b>	<p><b>Prize-giving</b></p> <p>Awarding the Sandpit Prize</p> <p>Awards presented by the Research and Innovation Office</p>
<b>15:20</b>	<b>Auditorium</b>	<p><b>Closing remarks</b></p> <p>Dan Evans, on behalf of the ECR Network Committee's Standalone Events Working Group</p>